

Connecting via Winsock to STN

Welcome to STN International! Enter x:x

LOGINID:SSSPTA1600GXH

PASSWORD:

TERMINAL (ENTER 1, 2, 3, OR ?):2

gh ne 09/97 445

* * * * * Welcome to STN International * * * * *

NEWS 1 Web Page URLs for STN Seminar Schedule - N. America
NEWS 2 "Ask CAS" for self-help around the clock
NEWS 3 JAN 27 Source of Registration (SR) information in REGISTRY updated
and searchable
NEWS 4 JAN 27 A new search aid, the Company Name Thesaurus, available in
CA/CaPlus
NEWS 5 FEB 05 German (DE) application and patent publication number format
changes
NEWS 6 MAR 03 MEDLINE and LMedline reloaded
NEWS 7 MAR 03 MEDLINE file segment of TOXCENTER reloaded
NEWS 8 MAR 03 FRANCEPAT now available on STN
NEWS 9 MAR 29 Pharmaceutical Substances (PS) now available on STN
NEWS 10 MAR 29 WPIFV now available on STN
NEWS 11 MAR 29 New monthly current-awareness alert (SDI) frequency in RAPRA
NEWS 12 APR 26 PROMT: New display field available
NEWS 13 APR 26 IFIPAT/IFIUDB/IFICDB: New super search and display field
available
NEWS 14 APR 26 LITAlert now available on STN
NEWS 15 APR 27 NLDB: New search and display fields available
NEWS 16 May 10 PROUSDDR now available on STN
NEWS 17 May 19 PROUSDDR: One FREE connect hour, per account, in both May
and June 2004
NEWS 18 May 12 EXTEND option available in structure searching
NEWS 19 May 12 Polymer links for the POLYLINK command completed in REGISTRY
NEWS 20 May 17 FRFULL now available on STN
NEWS 21 May 27 STN User Update to be held June 7 and June 8 at the SLA 2004
Conference
NEWS 22 May 27 New UPM (Update Code Maximum) field for more efficient patent
SDIs in CaPlus
NEWS 23 May 27 CaPlus super roles and document types searchable in REGISTRY
NEWS 24 May 27 Explore APOLLIT with free connect time in June 2004

NEWS EXPRESS MARCH 31 CURRENT WINDOWS VERSION IS V7.00A, CURRENT
MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP),
AND CURRENT DISCOVER FILE IS DATED 26 APRIL 2004

NEWS HOURS STN Operating Hours Plus Help Desk Availability
NEWS INTER General Internet Information
NEWS LOGIN Welcome Banner and News Items
NEWS PHONE Direct Dial and Telecommunication Network Access to STN
NEWS WWW CAS World Wide Web Site (general information)

Enter NEWS followed by the item number or name to see news on that
specific topic.

All use of STN is subject to the provisions of the STN Customer
agreement. Please note that this agreement limits use to scientific

research. Use for software development or design or implementation of commercial gateways or other similar uses is prohibited and may result in loss of user privileges and other penalties.

* * * * * STN Columbus * * * * *

FILE 'HOME' ENTERED AT 14:57:29 ON 04 JUN 2004

=> file .agbiotech	SINCE FILE	TOTAL
COST IN U.S. DOLLARS	ENTRY	SESSION
FULL ESTIMATED COST	0.21	0.21

FILE 'CAPLUS' ENTERED AT 14:58:10 ON 04 JUN 2004
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
COPYRIGHT (C) 2004 AMERICAN CHEMICAL SOCIETY (ACS)

FILE 'CABA' ENTERED AT 14:58:10 ON 04 JUN 2004
COPYRIGHT (C) 2004 CAB INTERNATIONAL (CABI)

FILE 'AGRICOLA' ENTERED AT 14:58:10 ON 04 JUN 2004

FILE 'BIOSIS' ENTERED AT 14:58:10 ON 04 JUN 2004
COPYRIGHT (C) 2004 BIOLOGICAL ABSTRACTS INC. (R)

=> s dunaliella salina
L1 1678 DUNALIELLA SALINA

=> s (transgen? or transfor?) and l1
L2 26 (TRANSGEN? OR TRANSFOR?) AND L1

=> s bioreactor and l1
L3 28 BIOREACTOR AND L1

=> dup rem l3
PROCESSING COMPLETED FOR L3
L4 20 DUP REM L3 (8 DUPLICATES REMOVED)

=> d 1-20

L4 ANSWER 1 OF 20 CAPLUS COPYRIGHT 2004 ACS on STN DUPLICATE 1
AN 2004:184518 CAPLUS
DN 140:390338
TI Milking microalga **Dunaliella salina** for
 β -carotene production in two-phase **bioreactors**
AU Hejazi, M. A.; Holwerda, E.; Wijffels, R. H.
CS Food and Bioprocess Engineering Group, Wageningen University, Wageningen,
6700 EV, Neth.
SO Biotechnology and Bioengineering (2004), 85(5), 475-481
CODEN: BIBIAU; ISSN: 0006-3592
PB John Wiley & Sons, Inc.
DT Journal
LA English
RE.CNT 17 THERE ARE 17 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 2 OF 20 CAPLUS COPYRIGHT 2004 ACS on STN
AN 2004:245165 CAPLUS
TI Milking of microalgae
AU Hejazi, M. Amin; Wijffels, Rene H.
CS Food and Bioprocess Engineering Group, Wageningen University, PO Box 8129,

Wageningen, 6700 EV, Neth.

SO Trends in Biotechnology (2004), 22(4), 189-194
CODEN: TRBIDM; ISSN: 0167-7799

PB Elsevier Science Ltd.

DT Journal

LA English

L4 ANSWER 3 OF 20 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN

AN 2004:91222 BIOSIS

DN PREV200400093666

TI Overcoming shear stress of microalgae cultures in sparged photobioreactors.

AU Barbosa, Maria J. [Reprint Author]; Hadiyanto; Wijffels, Rene H.

CS Food and Bioprocess Engineering Group, Wageningen University, 6700 EV, P.O. Box 8129, Wageningen, Netherlands
Maria.Barbosa@wur.nl

SO Biotechnology and Bioengineering, (January 5 2004) Vol. 85, No. 1, pp. 78-85. print.
CODEN: BIBIAU. ISSN: 0006-3592.

DT Article

LA English

ED Entered STN: 11 Feb 2004
Last Updated on STN: 11 Feb 2004

L4 ANSWER 4 OF 20 CABA COPYRIGHT 2004 CABI on STN

AN 2004:4270 CABA

DN 20033187155

TI Milking of microalgae: production and selective extraction of [beta]-carotene in two-phase **bioreactors**

AU Hejazi, M. A.

CS Food and Bioprocess Engineering Group, Wageningen University, Postbus 9101 6700 HB Wageningen, Netherlands.

SO Milking of Microalgae: Production and selective extraction of beta-carotene in two-phase bioreactors, (2003) pp. 128. many ref.
Publisher: Wageningen Universiteit (Wageningen University). Wageningen
ISBN: 90-5808-895-2

CY Netherlands Antilles

DT Dissertation

LA English

SL Persian; Dutch

ED Entered STN: 20040112
Last Updated on STN: 20040112

L4 ANSWER 5 OF 20 CAPLUS COPYRIGHT 2004 ACS on STN

AN 2003:261069 CAPLUS

DN 138:282341

TI Vector and transgenic **Dunaliella salina** as a **bioreactor** for producing drugs, vaccines and phytohormones

IN Xue, Lexun; Pan, Weidong; Jiang, Guozhong; Wang, Jianmin

PA Peop. Rep. China

SO U.S. Pat. Appl. Publ., 12 pp.
CODEN: USXXCO

DT Patent

LA English

FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	-----	----	-----	-----	-----
PI	US 2003066107	A1	20030403	US 2001-997445	20011129
	CN 1356388	A	20020703	CN 2000-131217	20001203
	CN 1410525	A	20030416	CN 2001-128486	20010921
PRAI	CN 2000-131217	A	20001203		
	CN 2001-128486	A	20010921		

L4 ANSWER 6 OF 20 CAPLUS COPYRIGHT 2004 ACS on STN DUPLICATE 2
 AN 2003:891505 CAPLUS
 DN 140:110156
 TI Effect of mixing rate on β -carotene production and extraction by
Dunaliella salina in two-phase **bioreactors**
 AU Hejazi, M. A.; Andrysiewicz, E.; Tramper, J.; Wijffels, R. H.
 CS Food and Bioprocess Engineering Group, Wageningen University, Wageningen,
 6700 EV, Neth.
 SO Biotechnology and Bioengineering (2003), 84(5), 591-596
 CODEN: BIBIAU; ISSN: 0006-3592
 PB John Wiley & Sons, Inc.
 DT Journal
 LA English
 RE.CNT 16 THERE ARE 16 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 7 OF 20 CABA COPYRIGHT 2004 CABI on STN
 AN 2004:28320 CABA
 DN 20033216149
 TI Stable expression of hepatitis B surface antigen gene in
Dunaliella salina (Chlorophyta)
 AU Geng DeGui; Wang YiQin; Wang Peng; Li WenBin; Sun YongRu; Geng, D. G.;
 Wang, Y. Q.; Wang, P.; Li, W. B.; Sun, Y. R.
 CS Institute of Genetics and Developmental Biology, Chinese Academy of
 Sciences, Beijing, 100101, China. yrsun@genetics.ac.cn
 SO Journal of Applied Phycology, (2003) Vol. 15, No. 6, pp. 451-456. 21 ref.
 Publisher: Kluwer Academic Publishers. Dordrecht
 ISSN: 0921-8971
 CY Netherlands Antilles
 DT Journal
 LA English
 ED Entered STN: 20040206
 Last Updated on STN: 20040206

L4 ANSWER 8 OF 20 CAPLUS COPYRIGHT 2004 ACS on STN DUPLICATE 3
 AN 2003:626197 CAPLUS
 DN 139:363641
 TI Effect of light intensity on β -carotene production and extraction by
Dunaliella salina in two-phase **bioreactors**
 AU Hejazi, M. A.; Wijffels, R. H.
 CS Food and Bioprocess Engineering Group, Wageningen University, Wageningen,
 6700 EV, Neth.
 SO Biomolecular Engineering (2003), 20(4-6), 171-175
 CODEN: BIENFV; ISSN: 1389-0344
 PB Elsevier Science B.V.
 DT Journal
 LA English
 RE.CNT 14 THERE ARE 14 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 9 OF 20 CAPLUS COPYRIGHT 2004 ACS on STN
 AN 2003:746578 CAPLUS
 DN 140:58523
 TI State and parameter estimation of microalgal photobioreactor cultures
 based on local irradiance measurement
 AU Su, Wei Wen; Li, Jian; Xu, Ning-Shou
 CS Department of Molecular Biosciences and Bioengineering, University of
 Hawaii at Manoa, Honolulu, HI, 96822, USA
 SO Journal of Biotechnology (2003), 105(1,2), 165-178
 CODEN: JBITD4; ISSN: 0168-1656
 PB Elsevier Science B.V.

DT Journal

LA English

RE.CNT 31 THERE ARE 31 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 10 OF 20 CAPLUS COPYRIGHT 2004 ACS on STN DUPLICATE 4

AN 2003:626192 CAPLUS

DN 139:380939

TI Marine biotechnology in education: a competitive approach

AU Bosma, Rouke; Wijffels, Rene H.

CS Department of Agrotechnology and Food Sciences, Food and Bioprocess
Engineering Group, Wageningen University, Wageningen, 6700 EV, Neth.

SO Biomolecular Engineering (2003), 20(4-6), 125-131

CODEN: BIENFV; ISSN: 1389-0344

PB Elsevier Science B.V.

DT Journal

LA English

RE.CNT 12 THERE ARE 12 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 11 OF 20 CAPLUS COPYRIGHT 2004 ACS on STN

AN 2003:192828 CAPLUS

DN 138:186457

TI Transgenic **Dunaliella salina** bioreactor

IN Xue, Lexun; Pan, Weidong; Jiang, Guozhong; Zheng, Heming; Zhang, Guixing;
Lu, Yumin; Lu, Zhaoming; Wang, Jianmin; Niu, Xiangli; Wang, Jun

PA Peop. Rep. China

SO Faming Zhuanli Shenqing Gongkai Shuomingshu, 9 pp.

CODEN: CNXXEV

DT Patent

LA Chinese

FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	-----	----	-----	-----	-----
PI	CN 1356388	A	20020703	CN 2000-131217	20001203
	US 2003066107	A1	20030403	US 2001-997445	20011129
PRAI	CN 2000-131217	A	20001203		
	CN 2001-128486	A	20010921		

L4 ANSWER 12 OF 20 CAPLUS COPYRIGHT 2004 ACS on STN

AN 2002:858287 CAPLUS

DN 138:38133

TI Cultivation of **Dunaliella salina** in an airlift
photobioreactor

AU Hao, Jian-xin; Cong, Wei; Kang, Rui-juan; Cai, Zhao-ling

CS State Key Lab. Biochem. Eng., CAS, Beijing, 100080, Peop. Rep. China

SO Guocheng Gongcheng Xuebao (2002), 2(5), 443-447

CODEN: CJPEB5; ISSN: 1009-606X

PB Kexue Chubanshe

DT Journal

LA Chinese

L4 ANSWER 13 OF 20 CAPLUS COPYRIGHT 2004 ACS on STN

AN 2001:127130 CAPLUS

DN 135:45215

TI Study on mutagen breeding of **Dunaliella salina** and its
cultivation in simple axis photobioreactor

AU Jiang, Jianguo; Zhou, Shishui; Yao, Ruhua

CS Department of Biotechnology, South China University of Technology, Canton,
510641, Peop. Rep. China

SO Haiyang Kexue (2001), 25(1), 44-46

CODEN: HKEXE4; ISSN: 1000-3096

PB Kexue Chubanshe
 DT Journal
 LA Chinese

L4 ANSWER 14 OF 20 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN
 AN 1999:385030 BIOSIS
 DN PREV199900385030
 TI High-density cultivation of microalgae using microencapsulation.
 AU Han, Young-Ho [Reprint author]; Lee, Jung-Suck [Reprint author]; Kwak, Jung-Ki [Reprint author]; Lee, Eung-Ho; Cho, Man-Gi [Reprint author]
 CS Engineering Research Center, Dongseo University, Pusan, 617-716, South Korea
 SO Journal of the Korean Fisheries Society, (March, 1999) Vol. 32, No. 2, pp. 186-191. print.
 CODEN: HSHKAW. ISSN: 0374-8111.
 DT Article
 LA Korean
 ED Entered STN: 28 Sep 1999
 Last Updated on STN: 28 Sep 1999

L4 ANSWER 15 OF 20 CAPLUS COPYRIGHT 2004 ACS on STN DUPLICATE 5
 AN 1997:374978 CAPLUS
 DN 127:64565
 TI Production of ^{13}C -labeled β -carotene from **Dunaliella salina**
 AU Wilson, P. D. G.; Hilton, M. G.; Waspe, C. R.; Steer, D. C.; Wilson, D. R.
 CS Food Biophysics Dep., Inst. Food Res., Norwich Res. Park, Norwich, NR4 7UA, UK
 SO Biotechnology Letters (1997), 19(5), 401-405
 CODEN: BILED3; ISSN: 0141-5492
 PB Chapman and Hall
 DT Journal
 LA English

L4 ANSWER 16 OF 20 CAPLUS COPYRIGHT 2004 ACS on STN
 AN 1996:359082 CAPLUS
 DN 125:33382
 TI Optimization of operating strategies in β -Carotene microalgae **bioreactors**
 AU Enes, Isabel; Saraiva, Pedro
 CS Dep. Chem. Eng., Univ. Coimbra, Coimbra, 3000, Port.
 SO Computers & Chemical Engineering (1996), 20(Suppl. A, European Symposium on Computer Aided Process Engineering--6, 1996), S509-S514
 CODEN: CCENDW; ISSN: 0098-1354
 PB Elsevier
 DT Journal
 LA English

L4 ANSWER 17 OF 20 CAPLUS COPYRIGHT 2004 ACS on STN
 AN 1996:315980 CAPLUS
 DN 125:8630
 TI Modeling and optimization of Dunaliella microalgae production reactors
 AU Enes, Isabel; Saraiva, Pedro
 CS Dept. Chemical Engineering, Univ. Coimbra, Coimbra, 3000, Port.
 SO IChemE Research Event, European Conference for Young Researchers in Chemical Engineering, 2nd, Leeds, U. K., Apr. 2-3, 1996 (1996), Volume 1, 130-132 Publisher: Institution of Chemical Engineers, Rugby, UK.
 CODEN: 62UFAZ
 DT Conference
 LA English

L4 ANSWER 18 OF 20 CAPLUS COPYRIGHT 2004 ACS on STN

AN 1988:628590 CAPLUS
 DN 109:228590
 TI Improved phycocatalysis of carotene production by flow cytometry and cell sorting
 AU Nonomura, Arthur M.; Coder, David M.
 CS Res. Dev. Div., Microbio Resour. Inc., San Diego, CA, 92121, USA
 SO Biocatalysis (1988), 1(4), 333-8, 2 plates
 CODEN: BIOCED; ISSN: 0886-4454
 DT Journal
 LA English

L4 ANSWER 19 OF 20 CAPLUS COPYRIGHT 2004 ACS on STN
 AN 1987:515438 CAPLUS
 DN 107:115438
 TI Process for producing a naturally-derived carotene/oil composition by direct extraction from algae
 IN Nonomura, Arthur M.
 PA Microbio Resources, Inc., USA
 SO U.S., 6 pp.
 CODEN: USXXAM
 DT Patent
 LA English
 FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 4680314	A	19870714	US 1985-771402	19850830
	AU 8661646	A1	19870305	AU 1986-61646	19860820
	AU 595824	B2	19900412		
	IL 79850	A1	19910718	IL 1986-79850	19860826
PRAI	US 1985-771401		19850830		
	US 1985-771402		19850830		

L4 ANSWER 20 OF 20 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN
 AN 1985:120325 BIOSIS
 DN PREV198529010321; BR29:10321
 TI MICROBIO RESOURCES CULTIVATES ALGAE THE HIGH TECHNOLOGY WAY.
 AU PRAMIK M J
 SO Genetic Engineering News, (1985) Vol. 5, No. 4, pp. 17.
 CODEN: GENNDX. ISSN: 0270-6377.
 DT Article
 FS BR
 LA ENGLISH

=> d his

(FILE 'HOME' ENTERED AT 14:57:29 ON 04 JUN 2004)

FILE 'CAPLUS, CABA, AGRICOLA, BIOSIS' ENTERED AT 14:58:10 ON 04 JUN 2004

L1 1678 S DUNALIELLA SALINA
 L2 26 S (TRANSGEN? OR TRANSFOR?) AND L1
 L3 28 S BIOREACTOR AND L1
 L4 20 DUP REM L3 (8 DUPLICATES REMOVED)

Connecting via Winsock to STN

Welcome to STN International! Enter x:x

LOGINID:SSSPTAL600GXH

PASSWORD:

TERMINAL (ENTER 1, 2, 3, OR ?):2

* * * * * Welcome to STN International * * * * *

NEWS	1		Web Page URLs for STN Seminar Schedule - N. America
NEWS	2		"Ask CAS" for self-help around the clock
NEWS	3	JAN 27	Source of Registration (SR) information in REGISTRY updated and searchable
NEWS	4	JAN 27	A new search aid, the Company Name Thesaurus, available in CA/Caplus
NEWS	5	FEB 05	German (DE) application and patent publication number format changes
NEWS	6	MAR 03	MEDLINE and LMedline reloaded
NEWS	7	MAR 03	MEDLINE file segment of TOXCENTER reloaded
NEWS	8	MAR 03	FRANCEPAT now available on STN
NEWS	9	MAR 29	Pharmaceutical Substances (PS) now available on STN
NEWS	10	MAR 29	WPIFV now available on STN
NEWS	11	MAR 29	New monthly current-awareness alert (SDI) frequency in RAPRA
NEWS	12	APR 26	PROMT: New display field available
NEWS	13	APR 26	IFIPAT/IFIUDB/IFICDB: New super search and display field available
NEWS	14	APR 26	LITALERT now available on STN
NEWS	15	APR 27	NLDB: New search and display fields available
NEWS	16	May 10	PROUSDDR now available on STN
NEWS	17	May 19	PROUSDDR: One FREE connect hour, per account, in both May and June 2004
NEWS	18	May 12	EXTEND option available in structure searching
NEWS	19	May 12	Polymer links for the POLYLINK command completed in REGISTRY
NEWS	20	May 17	FRFULL now available on STN
NEWS	21	May 27	STN User Update to be held June 7 and June 8 at the SLA 2004 Conference
NEWS	22	May 27	New UPM (Update Code Maximum) field for more efficient patent SDIs in CaPlus
NEWS	23	May 27	CaPlus super roles and document types searchable in REGISTRY
NEWS	24	May 27	Explore APOLLIT with free connect time in June 2004
NEWS	EXPRESS		MARCH 31 CURRENT WINDOWS VERSION IS V7.00A, CURRENT MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP), AND CURRENT DISCOVER FILE IS DATED 26 APRIL 2004
NEWS	HOURS		STN Operating Hours Plus Help Desk Availability
NEWS	INTER		General Internet Information
NEWS	LOGIN		Welcome Banner and News Items
NEWS	PHONE		Direct Dial and Telecommunication Network Access to STN
NEWS	WWW		CAS World Wide Web Site (general information)

Enter NEWS followed by the item number or name to see news on that specific topic.

All use of STN is subject to the provisions of the STN Customer agreement. Please note that this agreement limits use to scientific

research. Use for software development or design or implementation of commercial gateways or other similar uses is prohibited and may result in loss of user privileges and other penalties.

* * * * * STN Columbus * * * * *

FILE 'HOME' ENTERED AT 14:57:29 ON 04 JUN 2004

=> file .agbiotech		
COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	0.21	0.21

FILE 'CAPLUS' ENTERED AT 14:58:10 ON 04 JUN 2004
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
COPYRIGHT (C) 2004 AMERICAN CHEMICAL SOCIETY (ACS)

FILE 'CABA' ENTERED AT 14:58:10 ON 04 JUN 2004
COPYRIGHT (C) 2004 CAB INTERNATIONAL (CABI)

FILE 'AGRICOLA' ENTERED AT 14:58:10 ON 04 JUN 2004

FILE 'BIOSIS' ENTERED AT 14:58:10 ON 04 JUN 2004
COPYRIGHT (C) 2004 BIOLOGICAL ABSTRACTS INC.(R)

=> s dunaliella salina
L1 1678 DUNALIELLA SALINA

=> s (transgen? or transfor?) and l1
L2 26 (TRANSGEN? OR TRANSFOR?) AND L1

=> s bioreactor and l1
L3 28 BIOREACTOR AND L1

=> dup rem l3
PROCESSING COMPLETED FOR L3
L4 20 DUP REM L3 (8 DUPLICATES REMOVED)

=> d 1-20

L4 ANSWER 1 OF 20 CAPLUS COPYRIGHT 2004 ACS on STN DUPLICATE 1
AN 2004:184518 CAPLUS
DN 140:390338
TI Milking microalga **Dunaliella salina** for
 β -carotene production in two-phase **bioreactors**
AU Hejazi, M. A.; Holwerda, E.; Wijffels, R. H.
CS Food and Bioprocess Engineering Group, Wageningen University, Wageningen,
6700 EV, Neth.
SO Biotechnology and Bioengineering (2004), 85(5), 475-481
CODEN: BIBIAU; ISSN: 0006-3592
PB John Wiley & Sons, Inc.
DT Journal
LA English
RE.CNT 17 THERE ARE 17 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 2 OF 20 CAPLUS COPYRIGHT 2004 ACS on STN
AN 2004:245165 CAPLUS
TI Milking of microalgae
AU Hejazi, M. Amin; Wijffels, Rene H.
CS Food and Bioprocess Engineering Group, Wageningen University, PO Box 8129,

Wageningen, 6700 EV, Neth.

SO Trends in Biotechnology (2004), 22(4), 189-194
CODEN: TRBIDM; ISSN: 0167-7799

PB Elsevier Science Ltd.
DT Journal
LA English

L4 ANSWER 3 OF 20 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN
AN 2004:91222 BIOSIS
DN PREV200400093666
TI Overcoming shear stress of microalgae cultures in sparged photobioreactors.
AU Barbosa, Maria J. [Reprint Author]; Hadiyanto; Wijffels, Rene H.
CS Food and Bioprocess Engineering Group, Wageningen University, 6700 EV, P.O. Box 8129, Wageningen, Netherlands
Maria.Barbosa@wur.nl
SO Biotechnology and Bioengineering, (January 5 2004) Vol. 85, No. 1, pp. 78-85. print.
CODEN: BIBIAU. ISSN: 0006-3592.
DT Article
LA English
ED Entered STN: 11 Feb 2004
Last Updated on STN: 11 Feb 2004

L4 ANSWER 4 OF 20 CABA COPYRIGHT 2004 CABI on STN
AN 2004:4270 CABA
DN 20033187155
TI Milking of microalgae: production and selective extraction of [beta]-carotene in two-phase **bioreactors**
AU Hejazi, M. A.
CS Food and Bioprocess Engineering Group, Wageningen University, Postbus 9101 6700 HB Wageningen, Netherlands.
SO Milking of Microalgae: Production and selective extraction of beta-carotene in two-phase bioreactors, (2003) pp. 128. many ref.
Publisher: Wageningen Universiteit (Wageningen University). Wageningen
ISBN: 90-5808-895-2
CY Netherlands Antilles
DT Dissertation
LA English
SL Persian; Dutch
ED Entered STN: 20040112
Last Updated on STN: 20040112

L4 ANSWER 5 OF 20 CAPLUS COPYRIGHT 2004 ACS on STN
AN 2003:261069 CAPLUS
DN 138:282341
TI Vector and transgenic **Dunaliella salina** as a **bioreactor** for producing drugs, vaccines and phytohormones
IN Xue, Lexun; Pan, Weidong; Jiang, Guozhong; Wang, Jianmin
PA Peop. Rep. China
SO U.S. Pat. Appl. Publ., 12 pp.
CODEN: USXXCO
DT Patent
LA English
FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	-----	----	-----	-----	-----
PI	US 2003066107	A1	20030403	US 2001-997445	20011129
	CN 1356388	A	20020703	CN 2000-131217	20001203
	CN 1410525	A	20030416	CN 2001-128486	20010921
PRAI	CN 2000-131217	A	20001203		
	CN 2001-128486	A	20010921		

L4 ANSWER 6 OF 20 CAPLUS COPYRIGHT 2004 ACS on STN DUPLICATE 2
 AN 2003:891505 CAPLUS
 DN 140:110156
 TI Effect of mixing rate on β -carotene production and extraction by
Dunaliella salina in two-phase **bioreactors**
 AU Hejazi, M. A.; Andrysiewicz, E.; Tramper, J.; Wijffels, R. H.
 CS Food and Bioprocess Engineering Group, Wageningen University, Wageningen,
 6700 EV, Neth.
 SO Biotechnology and Bioengineering (2003), 84(5), 591-596
 CODEN: BIBIAU; ISSN: 0006-3592
 PB John Wiley & Sons, Inc.
 DT Journal
 LA English
 RE.CNT 16 THERE ARE 16 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 7 OF 20 CABA COPYRIGHT 2004 CABI on STN
 AN 2004:28320 CABA
 DN 20033216149
 TI Stable expression of hepatitis B surface antigen gene in
Dunaliella salina (Chlorophyta)
 AU Geng DeGui; Wang YiQin; Wang Peng; Li WenBin; Sun YongRu; Geng, D. G.;
 Wang, Y. Q.; Wang, P.; Li, W. B.; Sun, Y. R.
 CS Institute of Genetics and Developmental Biology, Chinese Academy of
 Sciences, Beijing, 100101, China. yrsun@genetics.ac.cn
 SO Journal of Applied Phycology, (2003) Vol. 15, No. 6, pp. 451-456. 21 ref.
 Publisher: Kluwer Academic Publishers. Dordrecht
 ISSN: 0921-8971
 CY Netherlands Antilles
 DT Journal
 LA English
 ED Entered STN: 20040206
 Last Updated on STN: 20040206

L4 ANSWER 8 OF 20 CAPLUS COPYRIGHT 2004 ACS on STN DUPLICATE 3
 AN 2003:626197 CAPLUS
 DN 139:363641
 TI Effect of light intensity on β -carotene production and extraction by
Dunaliella salina in two-phase **bioreactors**
 AU Hejazi, M. A.; Wijffels, R. H.
 CS Food and Bioprocess Engineering Group, Wageningen University, Wageningen,
 6700 EV, Neth.
 SO Biomolecular Engineering (2003), 20(4-6), 171-175
 CODEN: BIENFV; ISSN: 1389-0344
 PB Elsevier Science B.V.
 DT Journal
 LA English
 RE.CNT 14 THERE ARE 14 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 9 OF 20 CAPLUS COPYRIGHT 2004 ACS on STN
 AN 2003:746578 CAPLUS
 DN 140:58523
 TI State and parameter estimation of microalgal photobioreactor cultures
 based on local irradiance measurement
 AU Su, Wei Wen; Li, Jian; Xu, Ning-Shou
 CS Department of Molecular Biosciences and Bioengineering, University of
 Hawaii at Manoa, Honolulu, HI, 96822, USA
 SO Journal of Biotechnology (2003), 105(1,2), 165-178
 CODEN: JBITD4; ISSN: 0168-1656
 PB Elsevier Science B.V.

DT Journal
LA English
RE.CNT 31 THERE ARE 31 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 10 OF 20 CAPLUS COPYRIGHT 2004 ACS on STN DUPLICATE 4
AN 2003:626192 CAPLUS
DN 139:380939
TI Marine biotechnology in education: a competitive approach
AU Bosma, Rouke; Wijffels, Rene H.
CS Department of Agrotechnology and Food Sciences, Food and Bioprocess
Engineering Group, Wageningen University, Wageningen, 6700 EV, Neth.
SO Biomolecular Engineering (2003), 20(4-6), 125-131
CODEN: BIENFV; ISSN: 1389-0344
PB Elsevier Science B.V.
DT Journal
LA English
RE.CNT 12 THERE ARE 12 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 11 OF 20 CAPLUS COPYRIGHT 2004 ACS on STN
AN 2003:192828 CAPLUS
DN 138:186457
TI Transgenic **Dunaliella salina** bioreactor
IN Xue, Lexun; Pan, Weidong; Jiang, Guozhong; Zheng, Heming; Zhang, Guixing;
Lu, Yumin; Lu, Zhaoming; Wang, Jianmin; Niu, Xiangli; Wang, Jun
PA Peop. Rep. China
SO Faming Zhuanli Shenqing Gongkai Shuomingshu, 9 pp.
CODEN: CNXXEV
DT Patent
LA Chinese
FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	-----	---	----	-----	-----
PI	CN 1356388	A	20020703	CN 2000-131217	20001203
	US 2003066107	A1	20030403	US 2001-997445	20011129
PRAI	CN 2000-131217	A	20001203		
	CN 2001-128486	A	20010921		

L4 ANSWER 12 OF 20 CAPLUS COPYRIGHT 2004 ACS on STN
AN 2002:858287 CAPLUS
DN 138:38133
TI Cultivation of **Dunaliella salina** in an airlift
photobioreactor
AU Hao, Jian-xin; Cong, Wei; Kang, Rui-juan; Cai, Zhao-ling
CS State Key Lab. Biochem. Eng., CAS, Beijing, 100080, Peop. Rep. China
SO Guocheng Gongcheng Xuebao (2002), 2(5), 443-447
CODEN: CJPEB5; ISSN: 1009-606X
PB Kexue Chubanshe
DT Journal
LA Chinese

L4 ANSWER 13 OF 20 CAPLUS COPYRIGHT 2004 ACS on STN
AN 2001:127130 CAPLUS
DN 135:45215
TI Study on mutagen breeding of **Dunaliella salina** and its
cultivation in simple axis photobioreactor
AU Jiang, Jianguo; Zhou, Shishui; Yao, Ruhua
CS Department of Biotechnology, South China University of Technology, Canton,
510641, Peop. Rep. China
SO Haiyang Kexue (2001), 25(1), 44-46
CODEN: HKEXE4; ISSN: 1000-3096

PB Kexue Chubanshe
 DT Journal
 LA Chinese

L4 ANSWER 14 OF 20 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN
 AN 1999:385030 BIOSIS
 DN PREV199900385030
 TI High-density cultivation of microalgae using microencapsulation.
 AU Han, Young-Ho [Reprint author]; Lee, Jung-Suck [Reprint author]; Kwak, Jung-Ki [Reprint author]; Lee, Eung-Ho; Cho, Man-Gi [Reprint author]
 CS Engineering Research Center, Dongseo University, Pusan, 617-716, South Korea
 SO Journal of the Korean Fisheries Society, (March, 1999) Vol. 32, No. 2, pp. 186-191. print.
 CODEN: HSHKAW. ISSN: 0374-8111.
 DT Article
 LA Korean
 ED Entered STN: 28 Sep 1999
 Last Updated on STN: 28 Sep 1999

L4 ANSWER 15 OF 20 CAPLUS COPYRIGHT 2004 ACS on STN DUPLICATE 5
 AN 1997:374978 CAPLUS
 DN 127:64565
 TI Production of ^{13}C -labeled β -carotene from **Dunaliella salina**
 AU Wilson, P. D. G.; Hilton, M. G.; Waspe, C. R.; Steer, D. C.; Wilson, D. R.
 CS Food Biophysics Dep., Inst. Food Res., Norwich Res. Park, Norwich, NR4 7UA, UK
 SO Biotechnology Letters (1997), 19(5), 401-405
 CODEN: BILED3; ISSN: 0141-5492
 PB Chapman and Hall
 DT Journal
 LA English

L4 ANSWER 16 OF 20 CAPLUS COPYRIGHT 2004 ACS on STN
 AN 1996:359082 CAPLUS
 DN 125:33382
 TI Optimization of operating strategies in β -Carotene microalgae **bioreactors**
 AU Enes, Isabel; Saraiva, Pedro
 CS Dep. Chem. Eng., Univ. Coimbra, Coimbra, 3000, Port.
 SO Computers & Chemical Engineering (1996), 20(Suppl. A, European Symposium on Computer Aided Process Engineering--6, 1996), S509-S514
 CODEN: CCENDW; ISSN: 0098-1354
 PB Elsevier
 DT Journal
 LA English

L4 ANSWER 17 OF 20 CAPLUS COPYRIGHT 2004 ACS on STN
 AN 1996:315980 CAPLUS
 DN 125:8630
 TI Modeling and optimization of Dunaliella microalgae production reactors
 AU Enes, Isabel; Saraiva, Pedro
 CS Dept. Chemical Engineering, Univ. Coimbra, Coimbra, 3000, Port.
 SO IChemE Research Event, European Conference for Young Researchers in Chemical Engineering, 2nd, Leeds, U. K., Apr. 2-3, 1996 (1996), Volume 1, 130-132 Publisher: Institution of Chemical Engineers, Rugby, UK.
 CODEN: 62UFAZ
 DT Conference
 LA English

L4 ANSWER 18 OF 20 CAPLUS COPYRIGHT 2004 ACS on STN

AN 1988:628590 CAPLUS
 DN 109:228590
 TI Improved phycocatalysis of carotene production by flow cytometry and cell sorting
 AU Nonomura, Arthur M.; Coder, David M.
 CS Res. Dev. Div., Microbio Resour. Inc., San Diego, CA, 92121, USA
 SO Biocatalysis (1988), 1(4), 333-8, 2 plates
 CODEN: BIOCED; ISSN: 0886-4454
 DT Journal
 LA English

L4 ANSWER 19 OF 20 CAPLUS COPYRIGHT 2004 ACS on STN
 AN 1987:515438 CAPLUS
 DN 107:115438
 TI Process for producing a naturally-derived carotene/oil composition by direct extraction from algae
 IN Nonomura, Arthur M.
 PA Microbio Resources, Inc., USA
 SO U.S., 6 pp.
 CODEN: USXXAM
 DT Patent
 LA English
 FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 4680314	A	19870714	US 1985-771402	19850830
	AU 8661646	A1	19870305	AU 1986-61646	19860820
	AU 595824	B2	19900412		
	IL 79850	A1	19910718	IL 1986-79850	19860826
PRAI	US 1985-771401		19850830		
	US 1985-771402		19850830		

L4 ANSWER 20 OF 20 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN
 AN 1985:120325 BIOSIS
 DN PREV198529010321; BR29:10321
 TI MICROBIO RESOURCES CULTIVATES ALGAE THE HIGH TECHNOLOGY WAY.
 AU PRAMIK M J
 SO Genetic Engineering News, (1985) Vol. 5, No. 4, pp. 17.
 CODEN: GENNDX. ISSN: 0270-6377.
 DT Article
 FS BR
 LA ENGLISH

=> d his

(FILE 'HOME' ENTERED AT 14:57:29 ON 04 JUN 2004)

FILE 'CAPLUS, CABA, AGRICOLA, BIOSIS' ENTERED AT 14:58:10 ON 04 JUN 2004

L1 1678 S DUNALIELLA SALINA
 L2 26 S (TRANSGEN? OR TRANSFOR?) AND L1
 L3 28 S BIOREACTOR AND L1
 L4 20 DUP REM L3 (8 DUPLICATES REMOVED)

=>

<-----User Break----->

=> dup rem l2

PROCESSING COMPLETED FOR L2

L5 22 DUP REM L2 (4 DUPLICATES REMOVED)

=> d 1-22

L5 ANSWER 1 OF 22 CAPLUS COPYRIGHT 2004 ACS on STN
 AN 2003:261069 CAPLUS
 DN 138:282341
 TI Vector and **transgenic Dunaliella salina** as a
 bioreactor for producing drugs, vaccines and phytohormones
 IN Xue, Lexun; Pan, Weidong; Jiang, Guozhong; Wang, Jianmin
 PA Peop. Rep. China
 SO U.S. Pat. Appl. Publ., 12 pp.
 CODEN: USXXCO
 DT Patent
 LA English
 FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	-----	----	-----	-----	-----
PI	US 2003066107	A1	20030403	US 2001-997445	20011129
	CN 1356388	A	20020703	CN 2000-131217	20001203
	CN 1410525	A	20030416	CN 2001-128486	20010921
PRAI	CN 2000-131217	A	20001203		
	CN 2001-128486	A	20010921		

L5 ANSWER 2 OF 22 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN
 AN 2004:35626 BIOSIS
 DN PREV200400036562
 TI Cloning and characterization of Hsp70a cDNA fragment of **Dunaliella salina**.
 AU Jiang Guo-Zhong [Reprint Author]; Nu Xiang-Li [Reprint Author]; Lu Yu-min [Reprint Author]; Xie Hua [Reprint Author]; Wang Jian-min [Reprint Author]; Yuan Bao-Mei [Reprint Author]; Xu Pei-Rong [Reprint Author]; Xue Le-Xun [Reprint Author]
 CS Henan Key Laboratory of Molecular Medicine, Zhengzhou University, 450052, Zhengzhou, China
 guozhong_jiang@hotmail.com; lxxue@public2.zz.ha.cn
 SO Yichuan, (Sep 2003) Vol. 25, No. 5, pp. 573-576. print.
 ISSN: 0253-9772 (ISSN print).
 DT Article
 LA Chinese
 ED Entered STN: 7 Jan 2004
 Last Updated on STN: 7 Jan 2004

L5 ANSWER 3 OF 22 CAPLUS COPYRIGHT 2004 ACS on STN DUPLICATE 1
 AN 2003:904869 CAPLUS
 DN 140:265063
 TI Stable expression of hepatitis B surface antigen gene in **Dunaliella salina** (Chlorophyta)
 AU Geng, Degui; Wang, Yiqin; Wang, Peng; Li, Wenbin; Sun, Yongru
 CS Institute of Genetics and Developmental Biology, Chinese Academy of Sciences, Beijing, 100101, Peop. Rep. China
 SO Journal of Applied Phycology (2003), 15(6), 451-456
 CODEN: JAPPEL; ISSN: 0921-8971
 PB Kluwer Academic Publishers
 DT Journal
 LA English
 RE.CNT 21 THERE ARE 21 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 4 OF 22 CAPLUS COPYRIGHT 2004 ACS on STN
 AN 2003:528393 CAPLUS
 DN 139:225144
 TI Transient expression of reporter gene EGFP in **transformed Dunaliella salina**
 AU Li, Jie; Ren, Hong-wei; Huang, Jie-hong; Yu, Mei-min; Ru, Bing-gen

CS College of Life Sciences, Peking University, Beijing, 100871, Peop. Rep. China

SO Zhongguo Shengwu Huaxue Yu Fenzi Shengwu Xuebao (2003), 19(3), 338-342
CODEN: ZSHXF2; ISSN: 1007-7626

PB Zhongguo Shengwu Huaxue Yu Fenzi Shengwu Xuebao Bianweihui

DT Journal

LA Chinese

L5 ANSWER 5 OF 22 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN

AN 2003:305971 BIOSIS

DN PREV200300305971

TI 5th Conference of the Asia-Pacific International Molecular Biology Network (A-IMBN) (Part II), Shanghai, China, November 3-5, 2002.

AU Anonymous

SO Shengwu Huaxue yu Shengwu Wuli Xuebao, (Mar 2003) Vol. 35, No. 3, pp. 306-310. print.
Meeting Info.: 5th Conference of the Asia-Pacific International Molecular Biology Network (A-IMBN) (Part II). Shanghai, China. November 03-05, 2002. ISSN: 0582-9879 (ISSN print).

DT Conference; (Meeting)
Conference; (Meeting Summary)

LA English

ED Entered STN: 2 Jul 2003
Last Updated on STN: 2 Jul 2003

L5 ANSWER 6 OF 22 CAPLUS COPYRIGHT 2004 ACS on STN DUPLICATE 2

AN 2003:226025 CAPLUS

DN 138:380132

TI Cloning of a NaCl-induced fructose-1, 6-diphosphate aldolase cDNA from **Dunaliella salina** and its expression in tobacco

AU Zhang, Xiaoning; Lin, Changfa; Chen, Huoying; Wang, Hao; Qu, Zhicai; Zhang, Hongwei; Yao, Jianhong; Shen, Daleng

CS Institute of Genetics, State Key Laboratory of Genetic Engineering, Ministry of Education Key Laboratory for Biodiversity Science and Ecological Engineering, School of Life Sciences, Fudan University, Shanghai, 200433, Peop. Rep. China

SO Science in China, Series C: Life Sciences (2003), 46(1), 49-57
CODEN: SCCLFO; ISSN: 1006-9305

PB Science in China Press

DT Journal

LA English

RE.CNT 20 THERE ARE 20 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 7 OF 22 CAPLUS COPYRIGHT 2004 ACS on STN

AN 2003:192828 CAPLUS

DN 138:186457

TI **Transgenic Dunaliella salina** bioreactor

IN Xue, Lexun; Pan, Weidong; Jiang, Guozhong; Zheng, Heming; Zhang, Guixing; Lu, Yumin; Lu, Zhaoming; Wang, Jianmin; Niu, Xiangli; Wang, Jun

PA Peop. Rep. China

SO Faming Zhuanli Shenqing Gongkai Shuomingshu, 9 pp.
CODEN: CNXXEV

DT Patent

LA Chinese

FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	CN 1356388	A	20020703	CN 2000-131217	20001203
	US 2003066107	A1	20030403	US 2001-997445	20011129
PRAI	CN 2000-131217	A	20001203		
	CN 2001-128486	A	20010921		

L5 ANSWER 8 OF 22 CAPLUS COPYRIGHT 2004 ACS on STN
 AN 2003:614783 CAPLUS
 DN 139:346514
 TI Construction of expression vector for the gene of DSG10 in
Dunaliella salina and **transformation** into
 Agrobacterium tumefaciens
 AU Liu, Yang; Cao, Yi; Jiang, Yan; Qiao, Dairong; Yang, Tao
 CS College of Life Science, Sichuan University, Chengdu, 610064, Peop. Rep.
 China
 SO Sichuan Daxue Xuebao, Ziran Kexueban (2002), 39(6), 1149-1151
 CODEN: SCTHAO; ISSN: 0490-6756
 PB Sichuan Daxue Xuebao Bianjibu
 DT Journal
 LA Chinese

L5 ANSWER 9 OF 22 CAPLUS COPYRIGHT 2004 ACS on STN DUPLICATE 3
 AN 2001:13705 CAPLUS
 DN 134:207094
 TI Comparative effects of all-trans β -carotene vs. 9-cis β -carotene
 on carcinogen-induced neoplastic **transformation** and connexin 43
 expression in murine 10T1/2 cells and on the differentiation of human
 keratinocytes
 AU Hieber, A. David; King, Timothy J.; Morioka, Scott; Fukushima, Laurie H.;
 Franke, Adrian A.; Bertram, John S.
 CS Cancer Research Center of Hawaii, University of Hawaii, Honolulu, HI,
 96813, USA
 SO Nutrition and Cancer (2000), 37(2), 234-244
 CODEN: NUCADQ; ISSN: 0163-5581
 PB Lawrence Erlbaum Associates, Inc.
 DT Journal
 LA English

RE.CNT 45 THERE ARE 45 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 10 OF 22 AGRICOLA Compiled and distributed by the National
 Agricultural Library of the Department of Agriculture of the United States
 of America. It contains copyrighted materials. All rights reserved.
 (2004) on STN
 AN 2000:9104 AGRICOLA
 DN IND22019484
 TI Molecular cloning and characterization of a cDNA encoding caltractin from
Dunaliella salina.
 AU Ko, J.H.; Kim, J.Y.; Lee, S.H.
 CS Yonsei University, Seoul, Korea.
 SO Plant and cell physiology, Apr 1999. Vol. 40, No. 4. p. 457-461
 Publisher: Kyoto, Japan : Japanese Society of Plant Physiologists.
 CODEN: PCPHA5; ISSN: 0032-0781
 NTE Includes references
 CY Japan
 DT Article
 FS Non-U.S. Imprint other than FAO
 LA English

L5 ANSWER 11 OF 22 CAPLUS COPYRIGHT 2004 ACS on STN
 AN 1998:660768 CAPLUS
 DN 130:22874
 TI Effect of selenium on the growth of **Dunaliella salina**
 and D. bardawil, and its accumulation and distribution in cells
 AU Wang, Dazhi; Gao, Yahui; Cheng, Zhaodi
 CS Department of Biology, Xiamen University, Xiamen, Peop. Rep. China
 SO Haiyang Xuebao (Zhongwenban) (1997), 19(5), 110-115

CODEN: HYPADJ; ISSN: 0253-4193

PB Haiyang Chubanshe
DT Journal
LA Chinese

L5 ANSWER 12 OF 22 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN
AN 1998:155685 BIOSIS
DN PREV199800155685
TI Developing a **transformation** system for *Dunaliella*.
AU Porath, Judith Ben [Reprint author]; Gokham, Irena [Reprint author]; Lers, Amnon; Levy, Haim [Reprint author]; Zamir, Ada [Reprint author]
CS Biochemistry Dep., Weizmann Inst., Rehovot 76100, Israel
SO Phycologia, (July, 1997) Vol. 36, No. 4 SUPPL., pp. 89. print.
Meeting Info.: Sixth International Phycological Congress. Leiden, Netherlands. August 9-16, 1997.
CODEN: PYCOAD. ISSN: 0031-8884.
DT Conference; (Meeting)
Conference; Abstract; (Meeting Abstract)
LA English
ED Entered STN: 31 Mar 1998
Last Updated on STN: 31 Mar 1998

L5 ANSWER 13 OF 22 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN
AN 1995:540059 BIOSIS
DN PREV199598554359
TI Effect of sodium azide on the photomovement of two *Dunaliella* species.
AU Posudin, Yu. I. [Reprint author]; Masyuk, N. P.; Lilitetskaya, G. G.; Shevchenko, A. A.
CS Natl. Agrar. Univ., Goloseevo, 252041 Kiev 41, Ukraine
SO Fiziologiya Rastenii (Moscow), (1995) Vol. 42, No. 3, pp. 432-434.
CODEN: FZRSAB. ISSN: 0015-3303.
DT Article
LA Russian
ED Entered STN: 14 Dec 1995
Last Updated on STN: 14 Dec 1995

L5 ANSWER 14 OF 22 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN
AN 1993:527734 BIOSIS
DN PREV199396141141
TI Characteristics of calcium ATPase and calcium translocation of barley root plasma membrane.
AU Hao, Lu-Ning; Yu, Shu-Wen
CS Shanghai Inst. Plant Physiol., Academia Sinica, Shanghai 200032, China
SO Acta Phytophysiological Sinica, (1993) Vol. 19, No. 2, pp. 172-180.
CODEN: CWSPDA. ISSN: 0257-4829.
DT Article
LA Chinese
ED Entered STN: 19 Nov 1993
Last Updated on STN: 20 Nov 1993

L5 ANSWER 15 OF 22 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN
AN 1993:527733 BIOSIS
DN PREV199396141140
TI Effect of viscosity on the functional properties of lactate dehydrogenase from ***Dunaliella salina***.
AU Saburova, E. A. [Reprint author]; Simonova, N. B.; Pronina, N. A.; Fol'kovich, T. N.; Semenenko, V. E.
CS Inst. Theor. Exp. Biophys., Acad. Sci. Russ., Pushchino, Russia
SO Doklady Akademii Nauk, (1992) Vol. 325, No. 6, pp. 1259-1264.
DT Article
LA Russian
ED Entered STN: 19 Nov 1993

Last Updated on STN: 20 Nov 1993

L5 ANSWER 16 OF 22 CAPLUS COPYRIGHT 2004 ACS on STN
AN 1992:180939 CAPLUS
DN 116:180939
TI Preparation of metaloproteins for cosmetics
IN Hernadi, Gyula; Dede, Laszlo
PA Kotai, Peter Frank, Australia
SO Pat. Specif. (Aust.), 16 pp.
CODEN: ALXXAP
DT Patent
LA English
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	AU 617661	B2	19911205	AU 1988-12082	19880222
	AU 8812082	A1	19880825		
PRAI	AU 1987-511		19870224		

L5 ANSWER 17 OF 22 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN
AN 1991:204730 BIOSIS
DN PREV199191107955; BA91:107955
TI RELATIONSHIP BETWEEN BODY SIZE GROWTH RATE AND MAXIMAL ENZYME ACTIVITIES
IN THE BRINE SHRIMP ARTEMIA-FRANCISCANA.
AU BERGES J A [Reprint author]; ROFF J C; BALLANTYNE J S
CS DEP ZOOL, UNIV GUELPH, ONT N1G 2W1, CAN
SO Biological Bulletin (Woods Hole), (1990) Vol. 179, No. 3, pp. 287-296.
CODEN: BIBUBX. ISSN: 0006-3185.
DT Article
FS BA
LA ENGLISH
ED Entered STN: 2 May 1991
Last Updated on STN: 3 May 1991

L5 ANSWER 18 OF 22 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN
AN 1990:59073 BIOSIS
DN PREV199038025493; BR38:25493
TI GENETIC **TRANSFORMATION** THROUGH PROTOPLAST FUSION IN ALGAE.
AU LEE Y K [Reprint author]; TAN H M
CS DEP MICROBIOL, FAC MED, NATL UNIV SINGAPORE, LOWER KENT RIDGE ROAD,
SINGAPORE 0511, SINGAPORE
SO (1988) pp. 101-110. STADLER, T., ET AL. (ED.). ALGAL BIOTECHNOLOGY; 4TH
INTERNATIONAL MEETING OF THE SAA (SOCIETE POUR L'ALGOLOGIE APPLIQUEE),
VILLENEUVE D'ASCQ CEDEX, FRANCE, SEPTEMBER 15-17, 1987. XII+521P. ELSEVIER
SCIENCE PUBLISHERS LTD.: LONDON, ENGLAND, UK; NEW YORK, NEW YORK, USA.
ILLUS.
ISBN: 1-85166-233-2.
DT Book
Conference; (Meeting)
FS BR
LA ENGLISH
ED Entered STN: 16 Jan 1990
Last Updated on STN: 16 Jan 1990

L5 ANSWER 19 OF 22 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN
AN 1988:372734 BIOSIS
DN PREV198886056644; BA86:56644
TI STUDYING THE NATURE OF CELL ADAPTATION IN **DUNALIELLA-**
SALINA TO CHANGES IN THE OSMOTIC PRESSURE OF THE MEDIUM.
AU ZEINALOVA Z A [Reprint author]; KAFAR-ZADE L K; GASANOV R A; GASHIMOV R M
CS VL KOMAROV INST BOT, ACAD SCI AZ SSR, BAKU, USSR
SO Izvestiya Akademii Nauk Azerbaidzhanskoi SSR Seriya Biologicheskikh Nauk,

(1987) No. 2, pp. 51-56.
CODEN: IABLAQ. ISSN: 0132-6112.

DT Article
FS BA
LA RUSSIAN
ED Entered STN: 18 Aug 1988
Last Updated on STN: 18 Aug 1988

L5 ANSWER 20 OF 22 CAPLUS COPYRIGHT 2004 ACS on STN
AN 1973:26494 CAPLUS
DN 78:26494
TI Brine flagellate **Dunaliella salina**
AU Loeblich, Laurel Ann
CS Univ. California, San Diego, CA, USA
SO (1972) 157 pp. Avail.: Univ. Microfilms, Ann Arbor, Mich., Order No.
72-24,635
From: Diss. Abstr. Int. B 1972, 33(3), 1033
DT Dissertation
LA English

L5 ANSWER 21 OF 22 CAPLUS COPYRIGHT 2004 ACS on STN
AN 1971:136981 CAPLUS
DN 74:136981
TI Content and state of nucleic acids in the alga **Dunaliella salina** depending upon sodium chloride concentration
AU Mushak, P. A.
CS Inst. Bot., Kiev, USSR
SO Ukrains'kii Botanichnii Zhurnal (1968), 25(2), 91-5
CODEN: UKBZAW; ISSN: 0372-4123
DT Journal
LA Ukrainian

L5 ANSWER 22 OF 22 CAPLUS COPYRIGHT 2004 ACS on STN
AN 1965:60835 CAPLUS
DN 62:60835
OREF 62:10825a
TI The pigments of **Dunaliella salina** during its artificial cultivation
AU Popova, R. Ts.
SO Pitannya Eksperim. Botan., Akad. Nauk Ukr. RSR, Inst. Botan. (1964) 32-4
DT Journal
LA Ukrainian

=>

<-----User Break----->

=> d his

(FILE 'HOME' ENTERED AT 14:57:29 ON 04 JUN 2004)

FILE 'CAPLUS, CABA, AGRICOLA, BIOSIS' ENTERED AT 14:58:10 ON 04 JUN 2004

L1 1678 S DUNALIELLA SALINA
L2 26 S (TRANSGEN? OR TRANSFOR?) AND L1
L3 28 S BIOREACTOR AND L1
L4 20 DUP REM L3 (8 DUPLICATES REMOVED)
L5 22 DUP REM L2 (4 DUPLICATES REMOVED)

Refine Search

Search Results -

Terms	Documents
bioreactor and L4	3

flu

Database:

US Pre-Grant Publication Full-Text Database
 US Patents Full-Text Database
 US OCR Full-Text Database
 EPO Abstracts Database
 JPO Abstracts Database
 Derwent World Patents Index
 IBM Technical Disclosure Bulletins

09/99 8 448

Search:

L7

Refine Search

Recall Text

Clear

Interrupt

Search History

DATE: Friday, June 04, 2004 [Printable Copy](#) [Create Case](#)

Set Name	Query	Hit Count	Set Name
side by side			result set

DB=EPAB,JPAB,DWPI; PLUR=YES; OP=OR

<u>L7</u>	bioreactor and l4	3	<u>L7</u>
<u>L6</u>	bioreactor and l3	0	<u>L6</u>
<u>L5</u>	bioreactor L4	3754	<u>L5</u>
<u>L4</u>	dunaliella adj salina	38	<u>L4</u>
<u>L3</u>	l1	0	<u>L3</u>

DB=USPT; PLUR=YES; OP=OR

<u>L2</u>	bioreactor and L1	7	<u>L2</u>
<u>L1</u>	dunaliella adj salina	46	<u>L1</u>

END OF SEARCH HISTORY

Hit List

[Clear](#) [Generate Collection](#) [Print](#) [Fwd Refs](#) [Bkwd Refs](#)
[Generate OACS](#)

Search Results - Record(s) 1 through 7 of 7 returned.

☐ 1. Document ID: US 6602703 B2

L2: Entry 1 of 7

File: USPT

Aug 5, 2003

US-PAT-NO: 6602703

DOCUMENT-IDENTIFIER: US 6602703 B2

TITLE: Photobioreactor

DATE-ISSUED: August 5, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Dutil; Frederic	Quebec			CA

US-CL-CURRENT: [435/292.1](#); [15/104.04](#), [15/88](#), [165/95](#), [165/DIG.4](#), [435/420](#)

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	FIGS	Draw. D.
------	-------	----------	-------	--------	----------------	------	-----------	--------	------	----------

☐ 2. Document ID: US 6000551 A

L2: Entry 2 of 7

File: USPT

Dec 14, 1999

US-PAT-NO: 6000551

DOCUMENT-IDENTIFIER: US 6000551 A

TITLE: Method for rupturing microalgae cells

DATE-ISSUED: December 14, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Kanel; Jeffrey Scott	Kingsport	TN		
Guelcher; Scott Arthur	Weirton	WV		

US-CL-CURRENT: [209/164](#); [209/169](#), [209/170](#), [210/221.2](#), [210/703](#), [241/1](#), [241/2](#), [241/24.11](#), [241/301](#), [435/257.1](#), [435/259](#), [435/306.1](#), [47/1.4](#)

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	FIGS	Draw. D.
------	-------	----------	-------	--------	----------------	------	-----------	--------	------	----------

☐ 3. Document ID: US 5951875 A

L2: Entry 3 of 7

File: USPT

Sep 14, 1999

US-PAT-NO: 5951875

DOCUMENT-IDENTIFIER: US 5951875 A

TITLE: Adsorptive bubble separation methods and systems for dewatering suspensions of microalgae and extracting components therefrom

DATE-ISSUED: September 14, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Kanel; Jeffrey Scott	Kingsport	TN		
Guelcher; Scott Arthur	Weirton	VA		

US-CL-CURRENT: 210/703; 210/768, 210/770, 210/806, 241/1, 241/2, 241/24.11, 241/301, 435/257.1, 435/259, 435/306.1, 47/1.4

Full	Title	Citation	Front	Review	Classification	Date	Reference				Claims	FIGS	Drawings
------	-------	----------	-------	--------	----------------	------	-----------	--	--	--	--------	------	----------

☐ 4. Document ID: US 5910254 A

L2: Entry 4 of 7

File: USPT

Jun 8, 1999

US-PAT-NO: 5910254

DOCUMENT-IDENTIFIER: US 5910254 A

TITLE: Method for dewatering microalgae with a bubble column

DATE-ISSUED: June 8, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Guelcher; Scott Arthur	Weirton	WV		
Kanel; Jeffrey Scott	Kingsport	TN		

US-CL-CURRENT: 210/703; 209/164, 435/67, 435/946, 47/1.4, 514/458, 514/725

Full	Title	Citation	Front	Review	Classification	Date	Reference				Claims	FIGS	Drawings
------	-------	----------	-------	--------	----------------	------	-----------	--	--	--	--------	------	----------

☐ 5. Document ID: US 5776349 A

L2: Entry 5 of 7

File: USPT

Jul 7, 1998

US-PAT-NO: 5776349

DOCUMENT-IDENTIFIER: US 5776349 A

TITLE: Method for dewatering microalgae with a jameson cell

DATE-ISSUED: July 7, 1998

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Guelcher; Scott Arthur	Weirton	WV		
Kanel; Jeffrey Scott	Kingsport	TN		

US-CL-CURRENT: 210/703; 209/164, 435/67, 435/946, 47/1.4, 514/458, 514/725

Full	Title	Citation	Front	Review	Classification	Date	Reference				Claims	FIGS	Draw. D.
------	-------	----------	-------	--------	----------------	------	-----------	--	--	--	--------	------	----------

☐ 6. Document ID: US 5310554 A

L2: Entry 6 of 7

File: USPT

May 10, 1994

US-PAT-NO: 5310554

DOCUMENT-IDENTIFIER: US 5310554 A

TITLE: High purity beta-carotene

DATE-ISSUED: May 10, 1994

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Haigh; W. Geoffrey	Seattle	WA		

US-CL-CURRENT: 424/439; 424/195.17, 424/452, 424/464, 424/489, 585/825

Full	Title	Citation	Front	Review	Classification	Date	Reference				Claims	FIGS	Draw. D.
------	-------	----------	-------	--------	----------------	------	-----------	--	--	--	--------	------	----------

☐ 7. Document ID: US 4680314 A

L2: Entry 7 of 7

File: USPT

Jul 14, 1987

US-PAT-NO: 4680314

DOCUMENT-IDENTIFIER: US 4680314 A

TITLE: Process for producing a naturally-derived carotene/oil composition by direct extraction from algae

DATE-ISSUED: July 14, 1987

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Nonomura; Arthur M.	Del Mar	CA		

US-CL-CURRENT: 514/725; 514/458

Full	Title	Citation	Front	Review	Classification	Date	Reference				Claims	FIGS	Draw. D.
------	-------	----------	-------	--------	----------------	------	-----------	--	--	--	--------	------	----------

Clear	Generate Collection	Print	Fwd Refs	Bkwd Refs	Generate OACS
Terms			Documents		
bioreactor and L1			7		

Display Format: CIT [Change Format](#)

[Previous Page](#)

[Next Page](#)

[Go to Doc#](#)

Hit List

[Clear](#) [Generate Collection](#) [Print](#) [Fwd Refs](#) [Bkwd Refs](#)
[Generate OACS](#)

Search Results - Record(s) 1 through 3 of 3 returned.

☐ 1. Document ID: ES 2193860 A1

Using default format because multiple data bases are involved.

L7: Entry 1 of 3

File: DWPI

Nov 1, 2003

DERWENT-ACC-NO: 2004-074181

DERWENT-WEEK: 200408

COPYRIGHT 2004 DERWENT INFORMATION LTD

TITLE: Cultivation of saline micro algae in a photo bioreactor consists of biomass and carotenoid production in a weatherproof tube

PRIORITY-DATA: 2001ES-0002805 (December 17, 2001)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
ES 2193860 A1	November 1, 2003		001	C12N001/12

INT-CL (IPC): C12 N 1/12; C12 N 1/12; C12 R 1:89

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	Form	Draw
------	-------	----------	-------	--------	----------------	------	-----------	--------	------	------

☐ 2. Document ID: US 20030066107 A1, CN 1410525 A

L7: Entry 2 of 3

File: DWPI

Apr 3, 2003

DERWENT-ACC-NO: 2003-644712

DERWENT-WEEK: 200361

COPYRIGHT 2004 DERWENT INFORMATION LTD

TITLE: Novel transgenic Dunaliella salina bioreactor useful for producing drugs, vaccines and phytohormones for humans and animals

INVENTOR: JIANG, G; PAN, W ; XUE, L ; WANG, J

PRIORITY-DATA: 2001CN-0128486 (September 21, 2001), 2000CN-0131217 (December 3, 2000)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
US 20030066107 A1	April 3, 2003		012	A01H005/00
CN 1410525 A	April 16, 2003		000	C12N001/13

INT-CL (IPC): A01 H 5/00; A61 K 39/29; C12 N 1/13; C12 N 15/51; C12 N 15/62; C12 N

15/79

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	RMIC	Draw D
------	-------	----------	-------	--------	----------------	------	-----------	--------	------	--------

☐ 3. Document ID: EP 889118 A1, IT 1294065 B, WO 9901537 A1, AU 9887314 A

L7: Entry 3 of 3

File: DWPI

Jan 7, 1999

DERWENT-ACC-NO: 1999-062653

DERWENT-WEEK: 200154

COPYRIGHT 2004 DERWENT INFORMATION LTD

TITLE: Bioreactor for growth of photosynthetic molecules - generates surface waves in liquid culture to circulate cells between surface and deeper layers of culture to increase yield

INVENTOR: DI GIUSEPPE, S D; DI GIUSEPPE STEFANORI, D

PRIORITY-DATA: 1997IT-PG00017 (July 4, 1997)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
<u>EP 889118 A1</u>	January 7, 1999	E	008	C12M001/00
<u>IT 1294065 B</u>	March 22, 1999		000	C12N000/00
<u>WO 9901537 A1</u>	January 14, 1999	E	000	C12M001/00
<u>AU 9887314 A</u>	January 25, 1999		000	C12M001/00

INT-CL (IPC): C12 M 1/00; C12 N 0/00

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	RMIC	Draw D
------	-------	----------	-------	--------	----------------	------	-----------	--------	------	--------

Clear	Generate Collection	Print	Fwd Refs	Bkwd Refs	Generate OACS
-------	---------------------	-------	----------	-----------	---------------

Terms	Documents
bioreactor and L4	3

Display Format: [Previous Page](#)[Next Page](#)[Go to Doc#](#)